SEQUENCE LISTING

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cat His	cgc Arg 50	ttg Leu	gaa Glu	cat His	gga Gly	gat Asp 55	gga Gly	gga Gly	ata Ile	cta Leu	gac Asp 60	ctt Leu	gat Asp	gac Asp	att Ile	192
ctt Leu 65	tgt Cys	gat Asp	gta Val	gca Ala	gac Asp 70	gat Asp	aaa Lys	gac Asp	aga Arg	ctg Leu 75	gta Val	gca Ala	gtg Val	ttt Phe	gat Asp 80	240
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gtc Val	tca Ser	gcc Ala 115	ttt Phe	cag Gln	cct Pro	tac Tyr	caa Gln 120	gca Ala	aca Thr	agt Ser	gaa Glu	att Ile 125	gag Glu	gtc Val	aca Thr	384
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Seer Seer Giu Giu Pios Seer Arg Lys Asn Pro Thr Arg Trp Seer Thr Thr Info Ser Arg Lys Asn Pro Thr Arg Trp Seer Thr Thr Info Ser Arg Seer Seer Gin Seer Arg Lys Asn Pro Arg Seer Pro Lys Thr Cys Asp Info See Arg Seer Arg S	Asp	Pro	gct Ala	cta Leu	att Ile	Gly	ctc Leu	tcc Ser	act Thr	tct Ser	Val	agt Ser	gat Asp	agt Ser	aat Asn	Phe	480
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Val 210 His Ala Asp Thr Gly Leu Glu His Ile Pro Asn Phe Ser Leu 220 220 220 220 220 220 220 220 220 22	agg Arg	aag Lys	ASP	gag Glu	gat Asp	ggg Gly	aca Thr	Glu	gag Glu	gat Asp	aac Asn	agt Ser	Arg	gtt Val	gaa Glu	cct Pro	624
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The His Val Val 245 Pro Phe Ser Ala Arg Gly Gly Arg Thr Leū Glý 255 Glý 245 Pro Phe Ser Ala Arg 250 Gly Gly Arg Thr Leū Glý 255 Glý 255 Glý 245 Gly Lys Ala Glu His Glu Asn 260 Leu Val Lys Arg Leu Glu Lys Gly Gly Lys Ala Glu His Glu Asn 270 Glu Asn 260 Pro Phe Arg Glu Asn Asp Cys Ile Val Arg Ile Asn Asp Gly Asp Ceu 275 Glu Asn Asp Cys Ile Val Arg Ile Asn Asp Gly Asp Ceu 275 Glu Asn Asp Cys Ile Val Arg Ile Asn Asp Gly Asp Ceu 285 Gly Asp Ceu 286 Gly Asp Ceu 286 Gly Asp Ceu 287 Gly Asp Ceu 288 Gly Asp Ceu 28	÷Asp	gat Asp	atg Met	gta Val	aag Lys	Leu	gta Val	gaa Glu	gtc Val	ccc Pro	Asn	gat Asp	gga Gly	ggg Gly	cct Pro	Leu	720
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Get titt cgt gag aat gat tgc att gle val Arg lie Asn Asp Gly Asp Leu 285 Gag aat aga aga aga ttt gaa caa gca caa cat atg phe Glu Gln Ala Gln His Met Phe Arg Gln Ala Met 300 Cgt aca ccc atc att tgg ttc cat gtg gtt val val Pro Ala	ŧta Teu	tta Leu	gta Val	Lys	cga Arg	ttg Leu	gag Glu	aaa Lys	Gly	ggt Gly	aaa Lys	gct Ala	gaa Glu	His	gaa Glu	aat Asn	816
cgt aca ccc atc att tgg ttc cat gtg gtt cct gca gca aat aaa gag gag he he his val val val pro Ala Ala Asn Lys Glu 320 cag tat gaa caa cta tcc caa agt gag aag aag aac aat tac tat tca agc glu Lys Asn Asn Tyr Tyr Ser ser 335 cgt ttt agc cct gac agc cag tat att gac aac agt gag aag aac aac aat tac tat tca agc ser Ser 335 cgt ttt agc cct gac agc cag tat att gac aac agg gg	<u>c</u> tt <u>L</u> eu	ttt Phe	arg	gag Glu	aat Asn	gat Asp	tgc Cys	Ile	gtc Val	agg Arg	att Ile	aat Asn	Asp	ggc Gly	gac Asp	ctt Leu	864
Cag tat gaa caa cta tcc caa agt gag aag aac aat tac tat tca agc Gln Tyr Glu Gln Leu Ser Gln Ser Glu Lys Asn Asn Tyr Tyr Ser Ser 325 Cgt ttt agc cct gac agc cag tat att gac aac agg agt gtg aac agt Asn Ser Gln Tyr Ile Asp Asn Arg Ser Val Asn Ser 340 gca ggg ctt cac acg gtg cag aga gca ccc cga ctg aac cac ccg cct Ala Gly Leu His Thr Val Gln Arg Ala Pro Arg Leu Asn His Pro Pro 360 gag cag ata gac tct cac tca aga cta cct cat agc gca cac ccc tcg Glu Gln Ile Asp Ser His Ser Arg Leu Pro His Ser Ala His Pro Ser 375	cga	Asn	aga Arg	aga Arg	ttt Phe	gaa Glu	Gln	gca Ala	caa Gln	cat His	atg Met	Phe	cgc Arg	caa Gln	gcc Ala	atg Met	912
Cgt ttt agc cct gac agc cag tat att gac aac agg agt gtg aac agt 1056 Arg Phe Ser Pro Asp Ser Gln Tyr Ile Asp Asn Arg Ser Val Asn Ser 345 gca ggg ctt cac acg gtg cag aga gca ccc cga ctg aac cac ccg cct Ala Gly Leu His Thr Val Gln Arg Ala Pro Arg Leu Asn His Pro Pro 360 gag cag ata gac tct cac tca aga cta cct cat agc gca cac ccc tcg Glu Gln Ile Asp Ser His Ser Arg Leu Pro His Ser Ala His Pro Ser 380	Arg	aca Thr	ccc Pro	atc Ile	att Ile	Trp	ttc Phe	cat His	gtg Val	gtt Val	Pro	gca Ala	gca Ala	aat Asn	aaa Lys	Glu	960
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Thr Thr Val Ser Ser Gly Tyr Asn Thr Lys Lys Ile Gly Lys Arg Leu 405 410 415 Asn Ile Gln Leu Lys Lys Gly Thr Glu Gly Leu Gly Phe Ser Ile Thr 420 425 430 420 Ser Arg Asp Val Thr Ile Gly Gly Ser Ala Pro Ile Tyr Val Lys Asn 435 440 445 Tile Leu Pro Arg Gly Ala Ala Ile Gln Asp Gly Arg Leu Lys Ala Gly 450 455 460 Asp Arg Leu Ile Glu Val Asn Gly Val Asp Leu Val Gly Lys Ser Gln
465 470 475 480 Glu Glu Val Val Ser Leu Leu Arg Ser Thr Lys Met Glu Gly Thr Val Ser Leu Leu Val Phe Arg Gln Glu Asp Ala Phe His Pro Arg Glu Leu 500 510 Lys Ala Glu Asp Glu Asp Ile Val Leu Thr Pro Asp Gly Thr Arg Glu 515 520 525 Phe Leu Thr Phe Glu Val Pro Leu Asn Asp Ser Gly Ser Ala Gly Leu 530 540 . . . Gly Val Ser Val Lys Gly Asn Arg Ser Lys Glu Asn His Ala Asp Leu 545 550 555 560 Gly Ile Phe Val Lys Ser Ile Ile Asn Gly Gly Ala Ala Ser Lys Asp 565 570 575 Gly Arg Leu Arg Val Asn Asp Gln Leu Ile Ala Val Asn Gly Glu Ser Leu Leu Gly Lys Thr Asn Gln Asp Ala Met Glu Thr Leu Arg Arg Ser Met Ser Thr Glu Gly Asn Lys Arg Gly Met Ile Gln Leu Ile Val Ala 610 620 _ Arg Arg Ile Ser Lys Cys Asn Glu Leu Lys Ser Pro Gly Ser Pro 625 630 640

Gly Pro Glu Leu Pro Ile Glu Thr Ala Leu Asp Asp Arg Glu Arg Arg

Ile Ser His Ser Leu Tyr Ser Gly Ile Glu Gly Leu Asp Glu Ser Pro

645

650

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1140 1150 Asn Tyr Ser Pro Gly Glu Gly Phe Gln Ser Ala Lys Glu Asn Pro Arg 1155 1160 1165 1160

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                                                        1180
  Phe Asn Ala Arg Val Met Leu Glu Thr Gln Glu Leu Leu Arg Gln Glu
                           1190
                                                   1195
                                                                            1200
  Gln Arg Arg Lys Glu Gln Gln Met Lys Lys Gln Pro Pro Ser Glu Gly
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  Pro Ser Asn Tyr Asp Ser Tyr Lys Lys Val Gln Asp Pro Ser Tyr Ala
1220
1225
1230
  Pro Pro Lys Gly Pro Phe Arg Gln Asp Val Pro Pro Ser Pro Ser Gln
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B. W. M.

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